Uses of the Quadratic Formula or Function in Real Life

1. Quadratic Formula can be used when calculating the phone bill. Assume that we have to pay the basic money every month and it's 30 dollars and can free talk for 150 minutes and later on it's 0.2 dollars per minute. And for the the wifi services, it should pay 5 dollars every day. We assume that a person paid 262 that month and that person use internet everyday, how many minutes did that person talk that month? (X-150) x 0.2 + 30 + 5 x y =262 And y = 30(a month) then we can find out how many minutes did he talk that month.

2. And when we go to the gas station, we can use quadratic formula to calculate how much money we should pay when how much gas we have fuel up, although there are usually machine that can calculate for us.

3. We also can use quadratic formula to calculate the area. There is a rectangular field and its length is 17 meter and its wide is 10 meter. If we want to build a cross road in the middle of this field, the cross road'd length is equal to its wide, and the rest of the area is 120 square meter, what is the wide of the road? And we suume that the wide of the road is x.(17-x)(10-x)=120 x^2-27x+50=0

(x-25)(x-2)=0

4. Also, when we are buying things, we try to find out how much amount of things in two different prices we should buy, we can use quadratic formula to fins out. Example is, there are two kinds of postage stamps. One is 5 dollars and the other is 7 dollars. How many 5 dollars or 7 dollars stamps should we but if we have 39 dollars and we buy 7 stamps total? So we can list the formula :assume that we but 5 dollars x stamps and 7 dollars y stamps. 5x + 7y = 39. and the total : x + y = 7

and we can find out that x=5 and y=2 and that's the answer. Buy five 5 dollars stamps and two7 dollars stamps.

5. There are many apples in the boxes, the amount of the boxes is 1 more than the amount of apples in the boxes and their product is 7140. How many apples are there? Assume the amount of the boxes are x + 1and the amount of the apple in the boxes is x.

x(x+1)=7140

x^2+x-7140=0

(x-84)(x+85)=0 and we can get the answer.